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APPLICATION NO		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/822,140		04/12/2004	Kevin Gardner	31978-202807	1168	
26694	7590	08/11/2006		EXAMINER		
VENABLE LLP				SKIBINSK	SKIBINSKY, ANNA	
P.O. BOX 34385 WASHINGTON, DC 20045-9998				ART UNIT	PAPER NUMBER	
	,			1631		
				DATE MAILED: 08/11/2000	DATE MAILED: 08/11/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

<u>; </u>							
	Application No.	Applicant(s)					
	10/822,140	GARDNER ET AL.					
Office Action Summary	Examiner	Art Unit					
	Anna Skibinsky	1631					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 05 M	Responsive to communication(s) filed on <u>05 May 2006</u> .						
,	·						
• ===	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>97 and 100-118</u> is/are pending in the application.							
4a) Of the above claim(s) 113-115,117 and 118 is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) <u>97,100-112 and 116</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9)☐ The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)							
Paper No(s)/Mail Date <u>1 page</u> .							

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DETAILED ACTION

Claim Amendments

Newly amended claim 97 and introduced claims 100-118 are acknowledged.

Claims 98-99 have been cancelled. Claims 113-115 and 117-118 are withdrawn.

Claim Election/Restriction

- 1. Applicant's election with traverse of Group II in the reply filed on 05/05/2006 is acknowledged. The traversal is on the ground(s) that the full scope of the claims embodies a unitary concept. This is not found persuasive because the components drawn to a kit and a method for generating and analyzing biological response profiles are distinct inventions and considered to be restrictable as such.
- 2. The requirement as set forth in the restriction requirement is still deemed proper and is therefore made FINAL.
- 3. Claims 113-115 and 117-118 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected Group, there being no allowable generic or linking claim. Claims 113-115 and 117-118 are drawn to the non-elected Group I where the claims 113-115 and 118 is a computerized method for measuring, processing and calculating response profiles and claim 117 is to a computer system and not a kit of recombinant constructs and electroporation device.
- 4. Applicant timely traversed the restriction (election) requirement in the reply filed on 05/05/2006.

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Claim Rejections - 35 USC § 112-2nd paragraph

The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 2. Claims 97, 100-112, and 116 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Claim 97, lines 5 and 7, recite "at least about three agents" which is vague and indefinite as to where the bounds for the number of agents are. Clarification is requested.
- The term "about" used to define the area of the lower end of a mold as between 25 to about 45% of the mold entrance was held to be clear, but flexible. Ex parte Eastwood, 163 USPQ 316 (Bd. App. 1968). Similarly, in W.L. Gore & Associates, Inc. v. Garlock, Inc., 721 F.2d 1540, 220 USPQ 303 (Fed. Cir. 1983), the court held that a limitation defining the stretch rate of a plastic as "exceeding about 10% per second" is definite because infringement could clearly be assessed through the use of a stopwatch. However, the court held that claims reciting "at least about" were invalid for indefiniteness where there was close prior art and there was nothing in the specification, prosecution history, or the prior art to provide any indication as to what range of specific activity is covered by the term "about." Amgen, Inc. v. Chugai Pharmaceutical Co., 927 F.2d 1200, 18 USPQ2d 1016 (Fed. Cir. 1991).

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 97, 100-112, and 116 are rejected under 35 U.S.C. 102(e) as being anticipated by Watt et al (US Patent No.: 6,994,982, filed May 5, 2000).
- 6. Claim 97, part (1), recites a kit comprising recombinant constructs each having an expression control sequence from a gene of a coordinated system of interest, operatively linked to a sequence encoding a reporter.
- 7. Watt et al. teach a first nucleotide sequence that encodes a reporter molecule and a second nucleotide sequence from a known genomic sequence that encodes the amino acid sequence that promotes expression (col. 11, lines 47-56). The first sequence is operably under control of a biological activity encoded for by the second sequence (col. 10, lines 30-54; col. 20, lines 57-67; col. 25, line 62 to col. 26, lines 2; and throughout the text). The nucleotide sequences are taught as being a plurality (col. 10, lines 55-62) of recombinant constructs (col. 31, lines 38-61)
- 8. Claim 97, part (2), recites at least three agents from a first set of agents that are known or predicted to act on one of the expression control sequences.

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- 9. Watt et al. teach a variety of different agents that modulates biological activity and target protein: DNA, peptide:DNA, or peptide:protein interactions. The agents can be antigens, antibiotics, or inhibitory agents (col. 7, line 64 to col. 8, line 21). A list of diverse categories of agents is provided (col. 1, line 50 to col. 2, line 12).
- 10. Claim 97, part (3) recites about three agents from a second set of agents wherein the agents from the first and second sets of agents are combined in an inter-set combinatorial fashion.
- 11. Watt et al. teach agents which are candidate compounds such as a small molecule, drug, antibiotic or other compound which, when combined with a carrier molecule can be taken up by a cell (col. 18, lines 1-6 and lines 25-32). The method disclosed herein includes inhibitory agents that target specific amino acid: amino acid or amino acid:nucleic acid sequence interactions (col. 18, lines 25-32).
- 12. Claims 100 and 101 recite expression control sequences from genes involved in signal transduction, apoptosis, or cell growth.
- 13. Watt et al. teach cell death, cell growth and signal transduction as a result of introduction of an amino acid sequence that acts as an agent which impacts the expression of the reporter molecule (col. 30, lines 31-35 and lines 53-63; and col.32, lines 3-9).
- 14. Claim 102 recites the number of control sequences linked to reporter sequences is at least about 8.
- 15. Watt et al. teach using fragments of genomes on the order of molar amounts (col.13, liens 29-34).

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- 16. Claim 103 recites a reporter sequences encoding green fluorescent protein, luciferase or beta-galactosidase.
- 17. Watt et al. teach reporter genes with express luciferase or beta-galactosidase (col. 11, lines 47-56) and green fluorescent protein (col. 28, line 51 to col. 52, line 4).
- 18. Claim 104 recites wherein three agents in the first set of agents and three agents in the second set are different are chemical compounds, biological agents, drugs, drug candidates, toxins, antibodies, transcription inhibitors or combinations thereof.
- 19. Watt et al. teach for example, one set of agents that affect cell growth or viability and are toxins, a cytostatic compound or anti-mitotic compound (col. 29, line 64 to col. 30, line 2). Anther set of agents, different from the first set are taught as being antifungal agents, isotonic agents and agents delaying absorption (col. 31, line 62 to col. 36, line 23). These agents are those that modulate the biological activity linked with the expression of the sequences (col. 35, lines 29-55).
- 20. Claim 105 recites at least about three agents in the first set represent different categories of stimuli for a cell than the about three agents in the second set, wherein the agents in the two sets are:
 - a) agents that act at the surface of a cell vs. agents that function within a cell, and/or
 - b) agents that exhibit different mechanisms of action.
- 21. Watt et al. teach agents that target the cell wall or a membrane transport component (col. 8, lines 17-21) or agents that target peptide:peptide, protein:protein or protein:DNA interactions which are interactions found inside a cell.

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- 22. Claim 106 recites agents form a first and/or second set which induce one or more of the following responses when introduced to or into cells:
 - a) altered levels of RNA production in response to the agent.
- 23. Watt et al. teaches RNA replication which is effected by agents which target biological interaction or activity (col. 1, line 50 to col. 2, line 3).
- 24. Claim 107 recites agents in the first set which are mitogens.
- 25. Watt et al. teaches the introduction of mitogens into the cell (col. 30, lines 31-35).
- 26. Claim 108 recites agents in the second set are pharmaceuticals.
- 27. Watt et al. teaches agents which are drugs or antibiotics (col. 18, line 1-6).
- 28. Claim 109 recites the limitations of claims 107 and 108 above.
- 29. Claim 110 recites at least tow of the first set of agents are combined in an interset combinatorial fashion.
- 30. Watt et al. teach combining agents with solvent or a dispersion medium containing agents such as water, PEG, ethanol or combining agents with a coating such as lecithin (col. 36, lines 8-15).
- 31. Claim 111 recites a first set of at least about 6 agents and a second set containing at least about 8 agents.
- 32. Watt et al. teach caring out processes with indicate concentrations on the level of molarities of agents (col. 13, lines 28-34; and col. 36, lines 8-15).
- 33. Claim 112 recites a first set of at least about 6 agents and the second set of at least about 8 agents.

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34. Watt et al. teach caring out processes with indicate concentrations on the level of molarities of agents (col. 13, lines 28-34; and col. 36, lines 8-15) which include an exponential number of agents.

- 35. Claim 116 recites three agents from a third set of agents which are different from the agents in the first and second set.
- 36. Watt et al. teaches agents that are antifungal such as parabens, chlorobutanols, phenol, phenol, isotonic agents such as sugars, or sodium chloride, and agents delaying absorption such as aluminum monostearate and gelatin (col. 36, lines 15-20).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anna Skibinsky whose telephone number is (571) 272-4373. The examiner can normally be reached on 8 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Wang can be reached on (571) 272-0811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Anna Skibinsky, PhD

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